



# DATABAND2

## Technical Specifications

- **HF protocol** ISO 15693
- **Frequency** 13.56 MHz (HF)
- **IC type** (HF chip)<sup>1</sup> ICODE SLIX
- **Chip memory** (HF) 64 bits UID, 896 bits user memory
- **Read range fixed**<sup>2</sup> Up to 0.16 ft (5 cm)
- **Read range handheld**<sup>2</sup> Up to 0.10 ft (3 cm)
  
- **RF protocol** EPC Class1 Gen2, ISO18000-63
- **Frequency** 902-928 MHz (US); 865-868 MHz (EU)
- **IC type** (chip)<sup>1</sup> NXP UCODE 8
- **Chip memory** (UHF) 128 bits EPC, 96 bits TID
- **Write cycles** 100,000 times
- **Data retention** 20 years
- **Read range fixed**<sup>3</sup> Up to 9.84 ft (3 m)
- **Read range handheld**<sup>3</sup> Up to 6.56 ft (2 m)
- **Polarization** Linear



## Applications

- **Industrial & chemical hose, pipes**

## Environmental Specifications

### Temperatures<sup>4</sup>



- **Operational** -40°C to +85°C  
-40°F to +185°F
- **Survival** -40°C to +125°C  
-40°F to +257°F

- **IP rating** IP68
- **Shock** 3ft (1 m) to concrete/granite
- **Vibration** MIL-STD-810G
- **Warranty** 1 year

<sup>1</sup> The chip data retention is based on the chip operating under general environment conditions.

<sup>2</sup> HF frequency.

<sup>3</sup> UHF frequency, on metal.

<sup>4</sup> The chemical resistance is based on the concentration of solutions and application environment. Please contact Xerafy for further details on chemical resistance.

## Physical Specifications

- **Material** PC/PBT alloy, glue
- **Dimensions (in)**<sup>1</sup> 1.50 x 0.75
- **Dimensions (mm)**<sup>1</sup> 38.10 x 19.05
- **Thickness (in)**<sup>1</sup> 0.25
- **Thickness (mm)**<sup>1</sup> 6.35
- **Color** Yellow
- **Weight** 0.17 oz (4.90 g)

<sup>1</sup> Tolerance: +/- 0.004; +/- 0.100

## Mounting Systems

- Metal band (Pass-through Slot 5/8")

## Industry Compliance



## Order Information

DATABAND2 US: X3819-US100-U8

DATABAND2 EU: X3819-EU100-U8

## Customization Options

Encoding

ATEX Certified Version

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